PlexPower™ IEC Fiber Panelboard

Factory Sealed. Panelboard with Fiber Patch Panel

ATEX/IECEx:
Zone 1 and 2 - 21 and 22
II 2G/2D
Ex db eb op pr IIB+H_2 or IIC T6 to T4 Gb
Ex op pr tb IIIC Db
IP66

Applications

- The PlexPower™ IEC Fiber Panelboard provides indoor and outdoor protection and control of electrical circuits in hazardous environments such as:
  - — Petroleum plants
  - — Chemical plants
  - — Refineries
  - — Wastewater Treatment Plants
  - — Paper and Pulp Industries
  - — Other process facilities
- Ideal for placement in wet, corrosive environments or where flammable gases or vapors are likely to be present.
- Suitable for use on applications where both power and communication wiring is required.

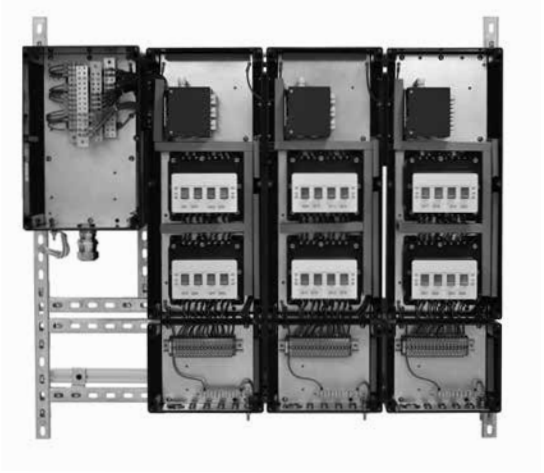
Features

- No external conduit or cable seals required thus making installations faster, easier, and less costly.
- The PlexPower Fiber Panelboard features a ground-breaking design that uses individual breaker housings to minimize the downtime and costs associated with servicing circuit breakers in hazardous locations.
- PlexPower breakers accommodate off-the-shelf Schneider□ breakers, making replacements readily available.
- The lighter weight panelboard enclosure can be quickly opened in the field for easier servicing.
- Standard models offer 8, 16 and 24 circuit panelboard configurations.
- Supplied as standard:
  - — Bottom entries with brass earth plate
  - — Pre-drilled supplied with non Ex certified temporary plastic plugs
  - — Standard hard wired, copper cables
  - — Color coded wiring for phases; neutral (blue) and ground (yellow/green)
  - — Internal actuators with waterproof windows
  - — Internal wiring duct
  - — Ground bars
  - — External/internal ground lug
  - — Phenolic nameplate (specify legend)
- Standard configuration includes internal actuators.
- Breaker modules supplied with captive steel bolts.
- Branch circuits available in single pole.
  - — 1-pole: 120, 240 Volts, 20 Amps maximum.
- Utilizes Belden* MIPP™ Fiber Patch Panel.
- Panelboard designed for -40 °C to +50 °C (-40 °F to +122 °F) operation.

Standard Materials

- Enclosure: fiberglass reinforced polyester (FRP) or stainless steel
- Hardware: stainless steel
- Chassis: hot dip galvanized for wall mounting use

Fiber Panelboard



Bus Bar Panel with Main Breaker Internal View

Illustrated Features

Weatherproof Window

Fiber Patch Panel

□ *Schneider is a registered trademark of Schneider Electric.*
 Cutler-Hammer is a registered trademark of Eaton Corporation.
✶ *Belden is a registered trademark Belden Inc.*

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ATEX/IECEx Certifications and Compliances

- Type: PFPP
  - — Gas, Zones 1 and 2:
    - – Conforming to ATEX 2014/34/EU: Ex II 2G
    - – Equipment Protection Level: EPL Gb
    - – Type of Protection:Ex db eb op pr IIB+H_2/IIC
    - – Temperature Class: T6 to T4 for Ta=+50°C
  - — Dusts, Zones 21 and 22:
    - – Conforming to ATEX: Ex II 2D
    - – Equipment Protection Level: EPL Db
    - – Type of Protection: Ex op pr tb IIIC
    - – Surface Temperature: +57°C to 62°C for Ta= +50°C
  - — Ambient Temperatures:
    - – Standard model: -25°C to +50°C
- ATEX Certificate: EPS 19 ATEX 1 114
- EC Declaration of Conformity: 50304
- IECEx Certificate: IECEx EPS 19.0054X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance: IK10

Related Products

- Recommended for use with the Appleton TC Cable Connector.
- Additional PlexPower™ IEC products:
  - — PlexPower™ Factory Sealed Increased Safety Panelboards

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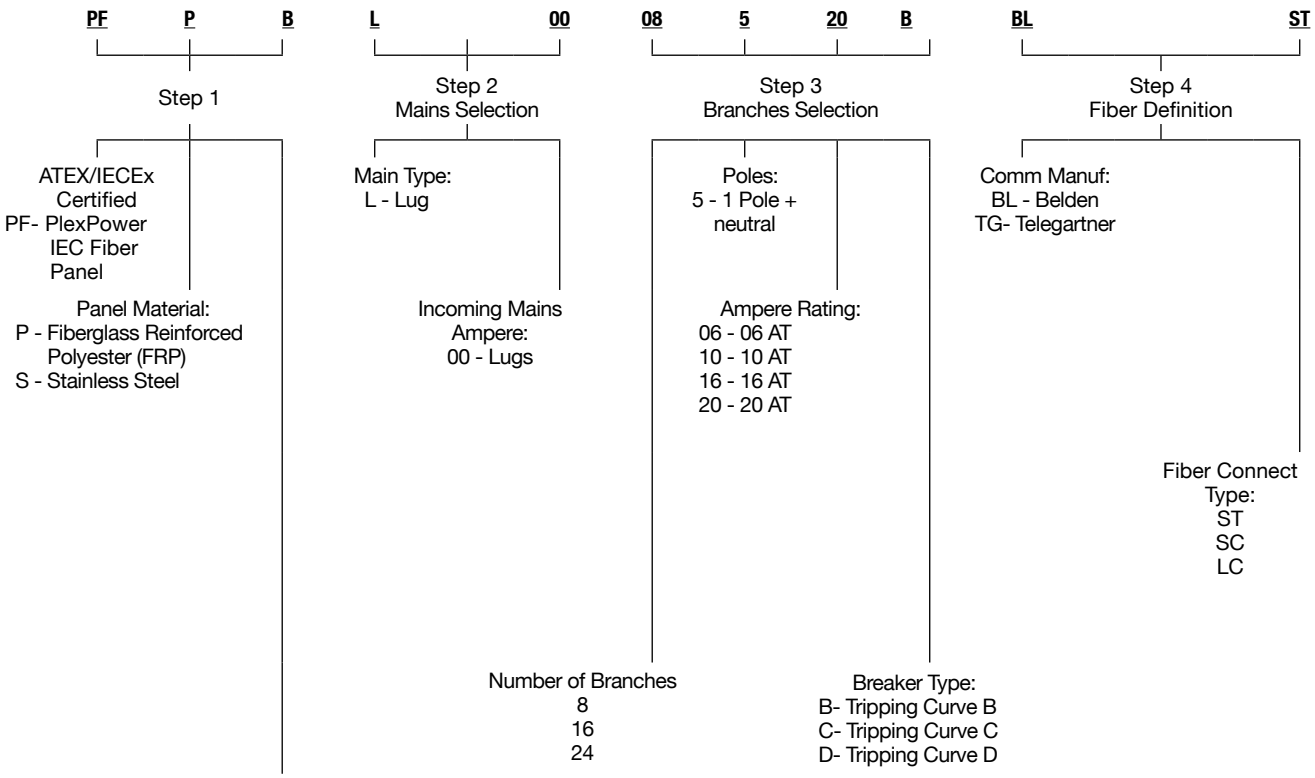
Catalog Numbering Guide ①



Panel Size ③: Select B, E, F enclosure based on number of circuits

	B	E	F
Max. Circuits	8	16	24

Fiberglass Reinforced Polyester (FRP)

Abbreviated Standard Part Numbers	Description
PFP08520CBLST	Eight (8) (1P+N) 20A breakers with Belden patch panel
PFP16520CBLST	Sixteen (16) (1P+N) 20A breakers with Belden patch panel
PFP24520CBLST	Twenty-four (24) (1P+N) 20A breakers with Belden patch panel

Stainless Steel

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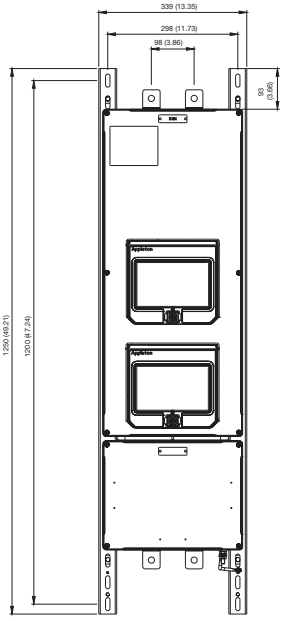
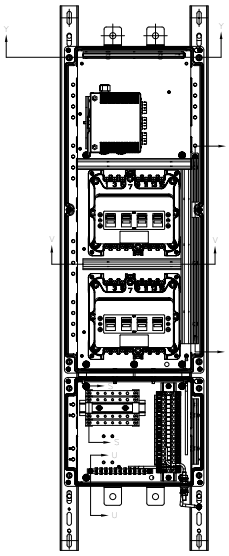
Dimensions in Millimeters (Inches)

8 Circuit

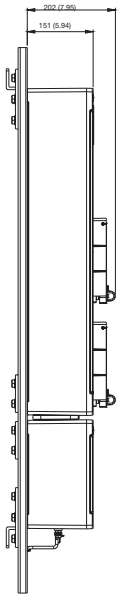
Front View



Internal View

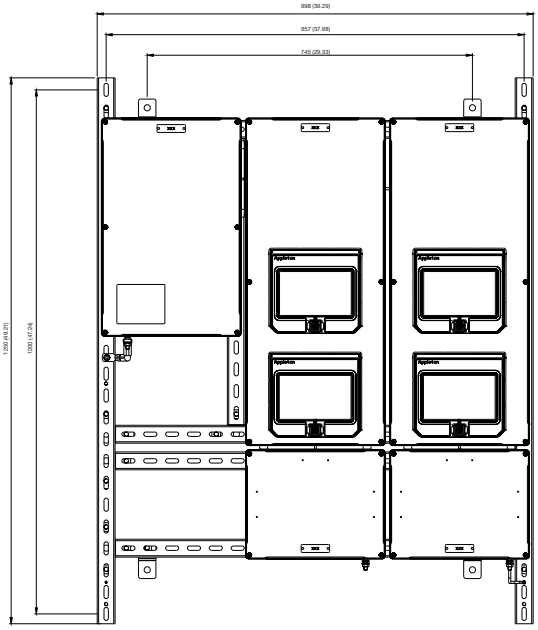


Side View

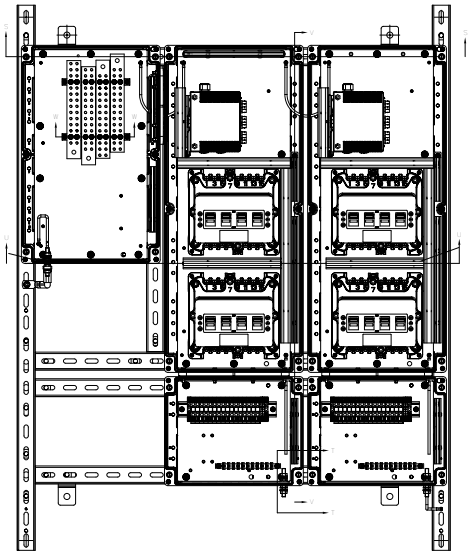


16 Circuit

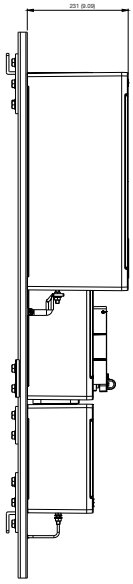
Front View



Internal View



Side View



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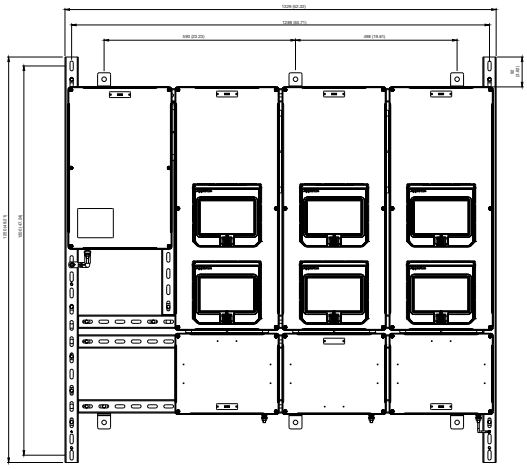
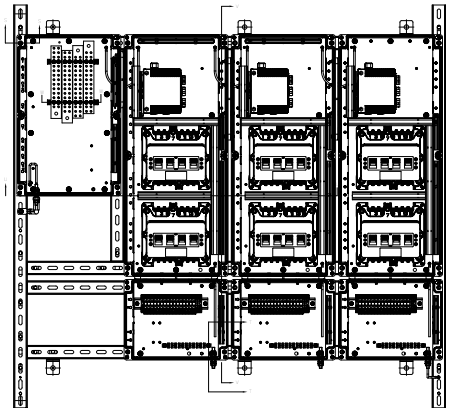
Dimensions in Millimeters (Inches)

24 Circuit

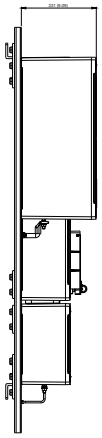
Front View



Internal View



Side View



Panel Size Dimensions in Millimeters (Inches)

	A 4 Circuit	B 8 Circuit	E 16 Circuit	F 24 Circuit
Polyester				
Length	750 (29.5)	1000 (39.4)	1000 (39.4)	1000 (39.4)
Width	320 (12.6)	320 (12.6)	960 (37.8)	1280 (50.4)
Depth	150 (5.9)	150 (5.9)	230 (9.1)	230 (9.1)
Stainless Steel				
Length	790 (31.0)	1080 (42.5)	1080 (42.5)	1080 (42.5)
Width	330 (13.0)	330 (13.0)	990 (39.0)	1320 (52.0)
Depth	150 (5.9)	150 (5.9)	230 (9.1)	230 (9.1)

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